

Application. No. 10/706,062
Amendment dated May 11, 2005
Reply to Office Action of March 30, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A headlight for use by surgeons comprising:

- a) an adjustable headband for placing on a user's head;
- b) at least two forward-facing, independently movable lamp housings, each comprising at least one light emitting diode (LED), a heat sink, and at least one reflector, disposed adjacent one another within an outer lamp housing disposed substantially centrally on a front side of said headband; and
- c) ~~at least one light emitting diode (LED) disposed in each of said lamp housings~~ at least two batteries disposed on said headband and operatively connected to said at least one LED, and adapted for independent replacement in a manner such that light output from said at least one LED is maintained during said independent replacement of one of said at least two batteries, said at least two batteries being the sole source of electrical power to said at least one LED.

Claim 2 (currently amended): The headlight as recited in claim 1, wherein said at least two forward-facing lamp housings ~~disposed adjacent one another proximate a central position on a front side of said headband~~ are independently pivotally affixed thereto, whereby light output from each of said at least ~~two LEDs~~ one LED in each of said lamp housings may be converged at a spot a predetermined distance forward therefrom.

Claim 3 (original): The headlight as recited in claim 2, wherein said lamp housings further comprise means for focusing light from said at least one LED.

Claim 4 (cancelled)

Claim 5 (currently amended): The headlight as recited in claim 4 1, wherein said at least one reflector comprises a reflector disposed behind said at least one LED and a reflector placed forward of said at least one LED, said reflectors arranged so as to cooperatively gather light output from said at least one LED and project said gathered light in a forward direction.

Claim 6 (original): The headlight as recited in claim 5, wherein said at least one of said reflectors comprises a substantially parabolic shape.

Claim 7 (original): The headlight as recited in claim 2, wherein said adjustable headband comprises means for adjusting said headband to fit any user.

Claim 8 (original): The headlight as recited in claim 2, further comprising means for controlling light output from at least one of said LEDs.

Claim 9 (original): The headlight as recited in claim 8, wherein said means for controlling light output from at least one of said LEDs comprises at least one of the devices: a switch, means for varying the intensity of said at least one LED.

Claims 10 - 14 (cancelled)

Claim 15 (currently amended): The headlight as recited in claim ~~11~~ 1, wherein said at least two batteries further comprise means for regulating power from said at least two batteries to maintain substantially constant light output from said at least one LED disposed in said at least two lamp housings.

Claim 16 (original): The headlight as recited in claim 2, further comprising cushioning means disposed proximate an inside surface of said headband.

Claim 17 (currently amended): A headlight for use by surgeons comprising:

a) an adjustable headband for placing on a user's head;

b) at least two forward-facing lamp housings, each comprising at least one light emitting diode (LED), a heat sink, and at least one reflector, disposed adjacent one another within an outer lamp housing disposed substantially centrally on a front side of said headband;

~~e) at least one light emitting diode (LED) disposed in each of said lamp housings; and~~

d c) a source of electrical power operatively connected to each of said at least one LED, and

d) means for regulating power from said source of electrical power to provide substantially constant light output from said at least one LED.

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Claim 18 (currently amended): The headlight as recited in claim 17, wherein said at least two forward-facing lamp housings ~~disposed adjacent one another proximate a central position on a front side of said headband~~ are independently pivotally affixed ~~thereto~~ within said outer lamp housing, whereby light output from each of said at least two LEDs in said lamp housings may be converged at a ~~spot~~ region a predetermined distance forward therefrom.

Claim 19 (original): The headlight as recited in claim 18, wherein said source of electrical power comprises a rechargeable battery.

Claim 20 (original): The headlight as recited in claim 19, wherein said source of electrical power comprises at least one rechargeable battery, said at least one rechargeable battery disposed in at least one of the locations: affixed to said headband, and located externally to said headband.

Claim 21 (original): The headlight as recited in claim 20, further comprising means for controlling light output from at least one of said LEDs.

Claim 22 (original): The headlight as recited in claim 21, wherein said means for controlling light output from at least one of said LEDs comprises at least one of the devices: a switch, means for varying the intensity of said at least one LED.

Claim 23 (previously presented): The headlight as recited in claim 5, wherein said headlight produces a light output having an intensity of approximately 40,000 lux.

Claim 24 (new): The headlight as recited in claim 1, further comprising:

d) a supplemental battery operatively connected to said at least two batteries and disposed apart therefrom.

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Claim 25 (new): A headlight for use by surgeons comprising:

a) an adjustable headband for placing on a user's head;

b) at least two forward-facing, independently movable lamp housings, each comprising at least one light emitting diode (LED), a heat sink, and at least one reflector, disposed adjacent one another within an outer lamp housing disposed substantially centrally on a front side of said headband; and

c) a battery disposed on said headband and operatively connected to said at least one LED, said battery being the sole source of electrical power to said at least one LED.